

ABSTRACT

[Problem] To provide a flexible capacitor that can be easily produced at low temperature.

[Means for Resolution] There is provided a capacitor having a dielectric material layer and two electrodes sandwiching the layer, characterized in that the dielectric material layer contains a metal microparticle and/or an organic charge trapping material in an organic insulating material, and the metal microparticle, etc. has an ionization potential and an electron affinity at an energy level between the ionization potential and the electron affinity of the organic insulating material. Once the metal microparticle, etc. is charged by applying voltage, the charge is trapped in the metal microparticle, etc. due to the energy level relation to the organic insulating material. The trapped charge acts in the same manner as dielectric polarization in the dielectric material, so that extremely large dielectric constant can be obtained practically even when the organic insulating material has a small dielectric constant.